COMPUTED BY: KAP DATE: 9/27/2016

CHECKED BY: DJC DATE: 9/27/2016

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

| PROJECT NO. | SHEET NO. |
|---|---|
| R-4753 | 3D-5 |

**Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".**

## *LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)*

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE | | | | | | | | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE SIZE | | | | | | | | R.C. PIPE CLASS III SIZE | | | | | | | | R.C. PIPE CLASS IV SIZE | | | | | | | | 15" R.C. PIPE CLASS V | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B IN SOIL | 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B NOT IN SOIL | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS | | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | LIN. FT. 5.0' THRU 10.0' A | LIN. FT. 10.0' AND ABOVE B | "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') | | | | SPECIAL TBJB (SEE DETAIL SHEET 2C-1) | OTCB STD. 840.04 OR 840.05 | | | | T.B.J.B. STD. 840.34 | M.H. FRAME AND COVER STD. 840.54 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | T.B.D.I. STD. 840.35 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29 | G.D.I. (N.S.) FRAME WITH 2 GRATES STD. 840.29 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | C.S. PIPE ELBOWS 15" | C.S. PIPE ELBOWS 18" | C.S. PIPE ELBOWS 24" | C.S. PIPE ELBOWS 36" | C.S. PIPE ELBOWS 48" | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
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